

FORM PTO-1390
REV. 5-93

US DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTORNEYS DOCKET NUMBER
P00,1923

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371**

U.S. APPLICATION NO. (if known, see 37 CFR 1.5)

09/743030

INTERNATIONAL APPLICATION NO.
PCT/DE99/02040

INTERNATIONAL FILING DATE
2 July 1999

PRIORITY DATE CLAIMED
8 July 1998

TITLE OF INVENTION

"TELECOMMUNICATION TERMINAL"

APPLICANT(S) FOR DO/EO/US

Ralf RÜTHER

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
 2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
 3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay.
 4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
 5. ☒ A copy of International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
 6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
 7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. §371(c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
 8. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
 9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
 10. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).
- Items 11. to 16. below concern other document(s) or information included:**
11. ☒ An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98; (PTO 1449, Prior Art, Search Report).
 12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 C.F.R. 3.28 and 3.31 is included.
(SEE ATTACHED ENVELOPE)
 13. ☒ A FIRST preliminary amendment.
☐ A SECOND or SUBSEQUENT preliminary amendment.
 14. ☐ A substitute specification.
 15. ☐ A change of power of attorney and/or address letter.
 16. ☒ Other items or information:
 - a. ☒ Submittal of Drawings
 - b. ☒ EXPRESS MAIL #EL 655303033US, dated January 4, 2001.

09/743030

17. ☒ The following fees are submitted:**BASIC NATIONAL FEE (37 C.F.R. 1.492(a)(1)-(5):**

Search Report has been prepared by the EPO or JPO \$860.00

International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) .. \$700.00

No international preliminary examination fee paid to USPTO (37 C.F.R. 1.482) but
international search fee paid to USPTO (37 C.F.R. 1.445(a)(2)) \$770.00Neither international preliminary examination fee (37 C.F.R. 1.482) nor international
search fee (37 C.F.R. 1.445(a)(2)) paid to USPTO \$1040.00International preliminary examination fee paid to USPTO (37 C.F.R. 1.482) and all
claims satisfied provisions of PCT Article 33(2)-(4) \$ 96.00**ENTER APPROPRIATE BASIC FEE AMOUNT =**

CALCULATIONS

PTO USE ONLY

\$ 860.00

Surcharge of \$130.00 for furnishing the oath or declaration later than ☐ 20 ☐ 30 months
from the earliest claimed priority date (37 C.F.R. 1.492(e)).

\$

Claims

Number Filed

Number
Extra

Rate

Total Claims

4 - 20 =

X \$ 18.00

\$

Independent Claims

1 - 3 =

X \$ 80.00

\$.00

Multiple Dependent Claims

\$270.00 +

\$

TOTAL OF ABOVE CALCULATIONS =

\$ 860.00

Reduction by 1/2 for filing by small entity, if applicable. Verified Small Entity statement must
also be filed. (Note 37 C.F.R. 1.9, 1.27, 1.28)

\$

SUBTOTAL =

\$ 860.00

Processing fee of \$130.00 for furnishing the English translation later than ☐ 20 ☐ 30 months
from the earliest claimed priority date (37 CFR 1.492(f)).

\$

+

TOTAL NATIONAL FEE =

\$ 860.00

Fee for recording the enclosed assignment (37 C.F.R. 1.21(h). The assignment must be
accompanied by an appropriate cover sheet (37 C.F.R. 3.28, 3.31). \$40.00 per property

+

TOTAL FEES ENCLOSED =

\$ 860.00

Amount to be
refunded

\$

charged

\$

a. ☒ A check in the amount of \$ 860.00 to cover the above fees is enclosed.b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A
duplicate copy of this sheet is enclosed.c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any
overpayment to Deposit Account No. 501519. A duplicate copy of this sheet is enclosed.**NOTE:** Where an appropriate time limit under 37 C.F.R. 1.494 or 1.495 has not been met, a petition to revive (37 C.F.R. 1.137(a) or (b)) must be
filed and granted to restore the application to pending status.**SEND ALL CORRESPONDENCE TO:**Schiff Hardin & Waite
Patent Department
6600 Sears Tower
Chicago, Illinois 60606

SIGNATURE

Melvin A. Robinson

NAME

31,870

Registration Number

BACKGROUND OF THE INVENTION

Field of the Invention--;

in line 3, before "invention" insert --present--;
after line 6, insert --

Description of the Related Art--;

- 5 in line 8, change "this type" to --the type described in the foregoing--;
in line 12, change "a telephone intensity, a modification of pin" to --
telephone speaker volume, a modification of PIN (personal identification
number)--;
- 10 in line 14, before "the operation" insert --have-- and delete "have"; and
after line 25, insert --

SUMMARY OF THE INVENTION--.

On page 2, in line 7, replace "must no longer" with --no longer must--;
after line 23, insert --

BRIEF DESCRIPTION OF THE DRAWINGS--; and

- 15 in line 29, after "Figure 1" insert --is--.

On page 3, in line 1, after "Figure 2" insert --is--;
in line 2, change "invention" to --invention,--;
in line 4, change "Figure 3-7" to --Figures 3-7 show--;
after line 5, insert --

20 **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS--;**

in line 7, before "invention" insert --present--;
in line 18, change "pin" to --PIN--; and
in line 29, delete ", " after ""handys"" and insert --or cordless phones--.

On page 4, in line 1, after "handys" insert --or cordless phones--;

in line 25, change "AUS" to --EXIT--; and
after line 26, add the following new paragraph --

Although other modifications and changes may be suggested by those
skilled in the art, it is the intention of the inventors to embody within the patent
5 warranted hereon all changes and modifications as reasonably and properly come
within the scope of their contribution to the art.--.

IN THE CLAIMS

On page 5, line 1, change "Patent Claims" to --I Claim:--.

Amend claim 1 as follows:

- 10 1. (Amended) A telecommunication [Telecommunication] terminal,
comprising: [with at least]
a microprocessor [(MIP)],
an input device, [(TAS) and]
at least one of an optical display and[/or] acoustic display [(ANZ)], [whereby] the
15 microprocessor having [has] a menu structure with options[,] which can be
at least one of called and[/or] modified by a [on the part of the] user via
the input device,
[characterized in that]
a memory table [(LIS)] having catch-words [is set up] and each of said catch-
20 words has an option allocated thereto, [whereby] the catch-words of the
memory table [can be] being selected via the input device [(TAS)], and the
options being [can be] immediately at least one of called and[/or] modified
after each of the catch-words has been selected by its confirmation.
- 25 2. (Amended) A telecommunication terminal [Terminal] according to
claim 1, wherein

[characterized in that]

the catch-words` of the memory list [(LIS) can be] are selected via at least one of alphanumeric input keys and[/or] scroll keys.

5 3. (Amended) A telecommunication terminal [Terminal] according to
claim 1 [or 2], wherein
[characterized in that]
at least parts of the memory list [(LIS) can be] are freely edited via the input
device [(TAS)].

10 4. (Amended) A telecommunication terminal [Terminal] according to
[one of the claims] claim 1 [to 3], wherein said telecommunication terminal
[characterized in that]
it is at least one of a DECT and[/or] GSM handset.

IN THE ABSTRACT

15 In line 1, change "Abstract" to --Abstract of the Disclosure--;
delete line 3; and
delete the last line, "Figure 2".

REMARKS

20 The foregoing amendments to the specification and claims under Article
41 of the Patent Cooperation Treaty place the application into a form for
prosecution before the U.S. Patent and Trademark Office under 35 U.S.C. §371.

Accordingly, entry of these amendments before examination on the merits is hereby requested.

Respectfully submitted,



Melvin A. Robinson (reg. no. 31,870)

Schiff Hardin & Waite

Patent Department

6600 Sears Tower

Chicago, Illinois 60606

Telephone: 312-258-5785

ATTORNEY FOR APPLICANT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

"CHANGE OF ADDRESS OF APPLICANT'S REPRESENTATIVE"

APPLICANT: Ralf RÜTHER

SERIAL NO.: EXAMINER:

FILING DATE: ART UNIT:

INTERNATIONAL APPLICATION NO.: PCT/DE99/02040

INTERNATIONAL FILING DATE: 2 July 1999

INVENTION: TELECOMMUNICATION TERMINAL

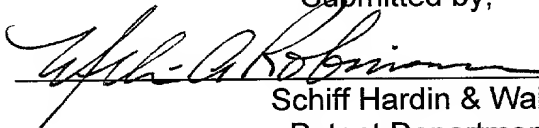
Hon. Assistant Commissioner for Patents
Washington, D.C. 20231

SIR:

Members of the firm of Hill & Simpson designated on the original Power of Attorney have merged into the firm of Schiff Hardin & Waite. All future correspondence for the above-referenced application therefore should be sent to the following address:

SCHIFF HARDIN & WAITE
Patent Department
6600 Sears Tower
233 South Wacker Drive
Chicago, Illinois 60606

Submitted by,

 (Reg. 31,870)

Schiff Hardin & Waite
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Telephone: 312-258-5785
ATTORNEYS FOR APPLICANT

TELECOMMUNICATION TERMINAL

The invention relates to a telecommunication terminal with a transmission/reception part, at least one microprocessor, an input device, as well as with an optical and/or
5 acoustic display, whereby the microprocessor has a menu structure with options, which can be called and/or changed on the part of the user via the input.

Given modern telecommunication terminals of this type, particularly mobile radio devices, for example according to the GSM system, extensive and highly branched
10 menu structures are provided, so that the user can select the corresponding options from a plurality of menus and submenus. Examples for such options are the selection of the dial tone volume, a telephone intensity, a modification of pin codes, call number display, network selection, call meter, charge meter, etc.. Due to the many
15 options, not only the operation manuals for modern cellular phones have become extremely extensive but it is extremely difficult for the average user to find a desired option in a fast way, whereby there is always the danger that unintended, serious changes are often undertaken with respect to adjustments, which can hardly be reversed by the user, due to an unsystematic course of action.

20 The operator's manual "Ihr E-Plus Handy PT-11 stellt sich vor!"; E-Plus Mobilfunk GmbH, 40476 Duesseldorf, 9350425 Issue 3, pages 35, 48, 62 and 63, discloses a portable mobile radio device, whereby individual options of a menu structure are allocated to numerals. Options can thereby be called either via menu keys or, respectively, selection keys or via the key field in that the numerals are directly
25 inputted.

The invention is based on the object of enabling the user of a telecommunication terminal to quickly access desired options without having to know the exact menu structure.

On the basis of a telecommunication terminal of the aforementioned type, this object is inventively achieved in that a memory table having catch-words is set up and each catch-word is allocated to an option, whereby the catch-words of the memory table can be selected via the input, and the option can be immediately called and/or changed after the catch-word has been selected by its confirmation.

As a result of the invention, the user must no longer scroll with the aid of soft keys for a long time until he reaches the desired menu levels or sub-levels but he must merely confirm a selected key word in order to reach the allocated option. The user prompting is thus significantly facilitated.

It is advantageous when the catch-words of the memory table can be selected via alphanumerical input keys and/or scroll keys. A combination of these keys will be mostly applied, for example when there are several catch-words under an initial letter.

Another expedient version is characterized in that at least parts of the memory table can be freely edited via the input. As a result thereof, the user can give the menu options names of his choice in order to be able to find it faster with respect to a new search of catch-words, since he can remember it better than the name given by the factory.

The invention is particularly advantageous when the terminal is a DECT and/or GSM hand device.

The invention including further advantages is subsequently explained in greater detail on the basis of an exemplary embodiment and upon reference to the drawing. Shown are:

Figure 1 a menu structure utilized for explaining an exemplary embodiment of the invention; however, only as an extract,

Figure 2 a simplified block diagram of a mobile radio telephone according to the invention and

Figure 3-7 the display or, respectively, key actuation at a mobile radio telephone
5 given the menu prompting according to the invention.

The invention, which generally relates to a telecommunication terminal, is explained by using a mobile radio device, namely a wireless telephone, as an example, which works according to the DECT standard. According to Figure 2, it has at least one
10 audio part AUD, a display ANZ, for example a LCD display and a key input TAS with keys that can be illuminated, in addition to a transmission-reception part HFT.

As known, the microprocessor has various controlling functions and processing functions, and it also has a menu structure having a mostly large number of options
15 implemented, which relate to adjustable device properties, services of the network operator, etc.. For example, these are the selection of the dial tone melody, the dial tone volume, display illumination, key click, message adjustments, modification of pin codes, call meter, voice selection, network selection, etc.. The number of such options can easily be 50 to 100 for conventional GSM mobile radio telephones or
20 GSM wireless devices. The options are classified in a menu structure, whereby submenus are also provided in addition to main menus according to a tree structure.

According to the invention, a memory table LIS having key words is set up, whereby a key word is allocated to each option. An extract from a menu structure with, for
25 example, 15 menus and more than 70 options could look like as represented in Figure 1.

Such menu structures are also conventional with respect to what are referred to as “handys”, e.g. GSM devices, also with respect to multiple system devices, e.g. “dual

mode handys", so that the invention is particularly advantageous with respect to all these devices.

For example, if the user wishes to change the option "key click", he will reach
 5 "adjustments" in that he presses the scroll key ∇ twice given traditional devices. He reaches the menu 5 when the key "OK" is pressed; here, by pressing the scroll key ∇ twice, he arrives from "receiver volume" at "local adjustment"; by pressing the "OK" key, he reaches the menu 10 and arrives here from "voice" at "tones" by pressing the scroll key ∇ twice. After the key "OK" has been pressed, the user is situated in menu
 10 14, and, by pressing the scroll key ∇ once, he arrives from the first option of this menu at the following, the option "key click".

Given a terminal according to the invention, the user, proceeding from the situation according to Figure 3, presses the menu key "F" in order to reach the main menu
 15 (menu 1). He presses now (Figure 4) the "OK" key for the first position of the main menu "index" and then the user can press the key "TUV/8" (Figure 5) in order to reach the letter "T", and the display according to Figure 6 appears. The scroll keys " ∇ " and " Δ " can also be used in the index in order to arrive at the desired key word , which is "key click" here.

20

According to Figure 6, the key word "key click" is now at the first position and/or is particularly emphasized by blinking, for example. The user must now not initiate anything but must merely confirm the option "key click", for example, in that he presses the "OK" key, whereupon the microprocessor directly leads into this position
 25 of the menus 14 (see Figure 7). The user can now confirm "AUS", whereby it took him - compared to traditional devices - only a fraction of the time.

Patent claims

1. Telecommunication terminal with at least a microprocessor (MIP), an input device (TAS) and an optical and/or acoustic display (ANZ), whereby the microprocessor has
5 a menu structure with options, which can be called and/or modified on the part of the user via the input,
characterized in that
a memory table (LIS) having catch-words is set up and each catch-word has an option allocated, whereby the catch-words of the memory table can be selected via the input
10 (TAS), and the options can be immediately called and/or modified after the catch-word has been selected by its confirmation.
2. Terminal according to claim 1,
characterized in that
15 the catch-words of the memory list (LIS) can be selected via alphanumerical input keys and/or scroll keys.
3. Terminal according to claim 1 or 2,
characterized in that
20 at least parts of the memory list (LIS) can be freely edited via the input (TAS).
4. Terminal according to one of the claims 1 to 3,
characterized in that
it is a DECT and/or GSM handset.

Abstract

Telecommunication terminal

- 5 A telecommunication terminal with at least a microprocessor (MIP), an input device (TAS) and an optical and/or acoustic display (ANZ), whereby the microprocessor has a menu structure with options, which can be called and/or modified on the part of the user via the input, and a memory table (LIS) having catch-words is set up and each catch-word has an option allocated, whereby the catch-words of the memory table can
- 10 be selected via the input (TAS), and the options can be immediately called and/or modified after the catch-word has been selected by its confirmation.

Figure 2

1/2

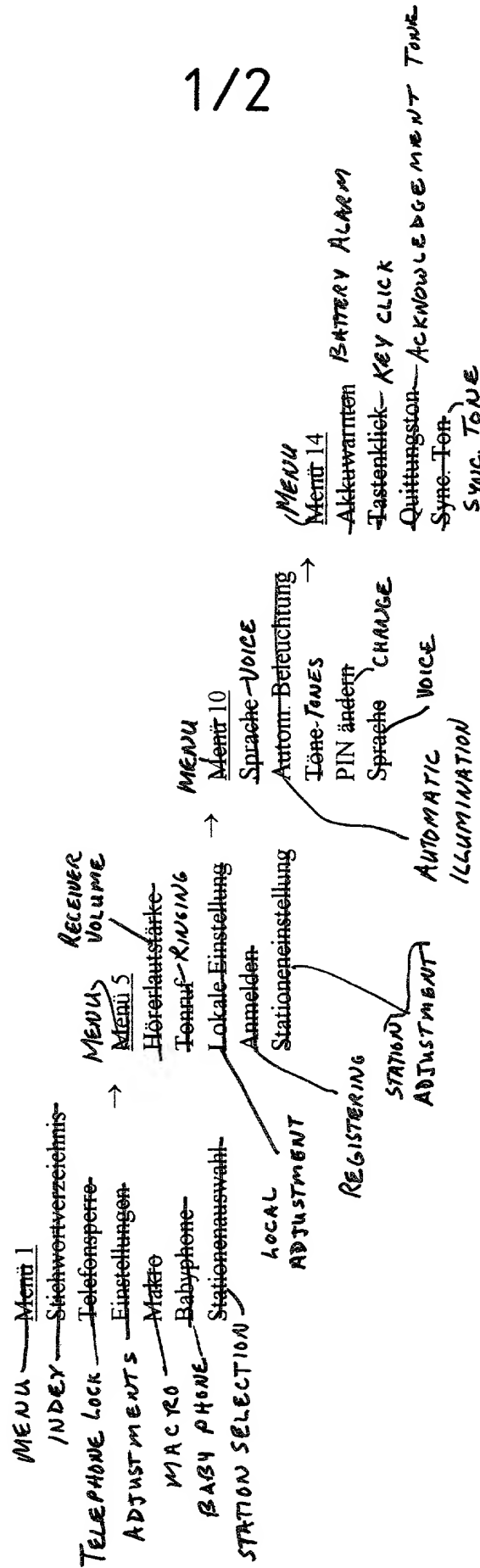


Fig. 1

2/2

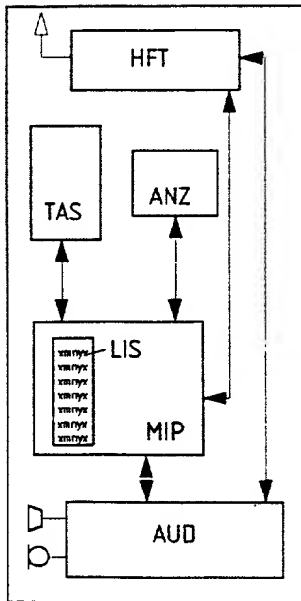


Fig.2

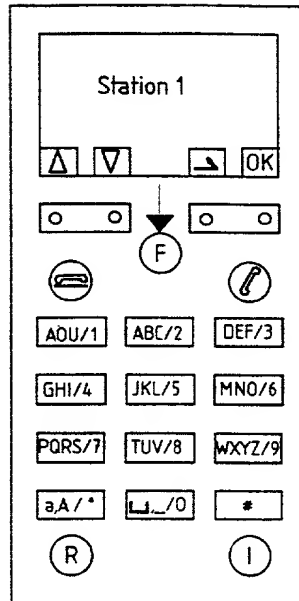


Fig.3

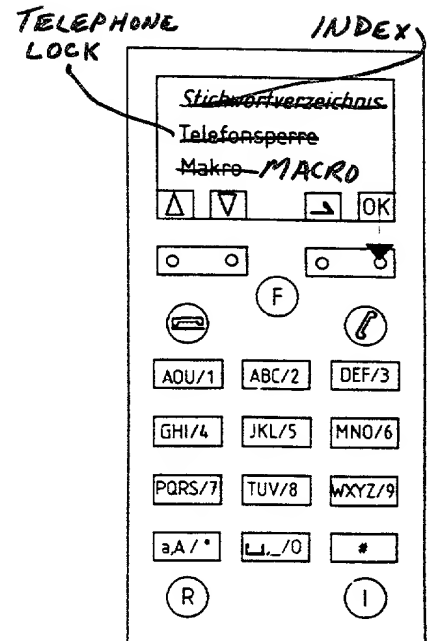


Fig.4

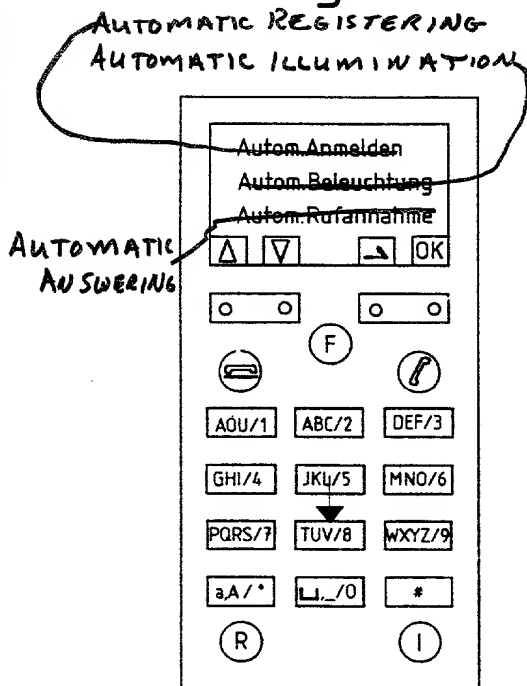


Fig.5

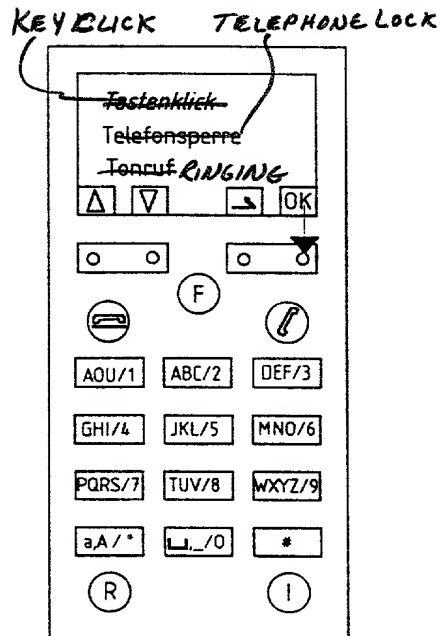


Fig.6

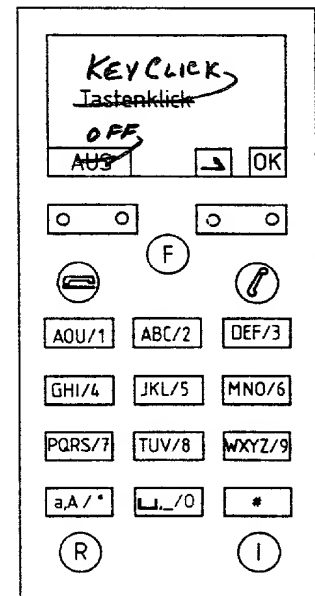


Fig.7

Declaration and Power of Attorney For Patent Application

Erklärung Für Patentanmeldungen Mit Vollmacht

German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an Eides Statt:

As a below named inventor, I hereby declare that:

dass mein Wohnsitz, meine Postanschrift, und meine Staatsangehörigkeit den im Nachstehenden nach meinem Namen aufgeführten Angaben entsprechen,

My residence, post office address and citizenship are as stated below next to my name,

dass ich, nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeführt sind) des Gegenstandes bin, für den dieser Antrag gestellt wird und für den ein Patent beantragt wird für die Erfindung mit dem Titel:

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Telekommunikationsendgerät

deren Beschreibung

the specification of which

(zutreffendes ankreuzen)

(check one)

☒ hier beigefügt ist.

☐ is attached hereto.

☐ am _____ als

☐ was filed on _____ as

PCT internationale Anmeldung

PCT international application

PCT Anmeldungsnummer _____

PCT Application No. _____

eingereicht wurde und am _____

and was amended on _____

abgeändert wurde (falls tatsächlich abgeändert).

(if applicable)

Ich bestätige hiermit, dass ich den Inhalt der obigen Patentanmeldung einschliesslich der Ansprüche durchgesehen und verstanden habe, die eventuell durch einen Zusatzantrag wie oben erwähnt abgeändert wurde.

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims as amended by any amendment referred to above.

Ich erkenne meine Pflicht zur Offenbarung irgendwelcher Informationen, die für die Prüfung der vorliegenden Anmeldung in Einklang mit Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) von Wichtigkeit sind, an.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäss Abschnitt 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 119 aller unten angegebenen Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde, und habe auch alle Auslandsanmeldungen für ein Patent oder eine Erfindersurkunde nachstehend gekennzeichnet, die ein Anmeldedatum haben, das vor dem Anmeldedatum der Anmeldung liegt, für die Priorität beansprucht wird.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

German Language Declaration

Prior foreign applications
Priorität beansprucht

Priority Claimed

198 30 565.6 Germany 08. Juli 1998
(Number) (Country) (Day Month Year Filed)
(Nummer) (Land) (Tag Monat Jahr eingereicht)

☒ ☐
Yes No
Ja Nein

(Number) (Country) (Day Month Year Filed)
(Nummer) (Land) (Tag Monat Jahr eingereicht)

☐ ☐
Yes No
Ja Nein

(Number) (Country) (Day Month Year Filed)
(Nummer) (Land) (Tag Monat Jahr eingereicht)

☐ ☐
Yes No
Ja Nein

Ich beanspruche hiermit gemäss Absatz 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 120, den Vorzug aller unten aufgeführten Anmeldungen und falls der Gegenstand aus jedem Anspruch dieser Anmeldung nicht in einer früheren amerikanischen Patentanmeldung laut dem ersten Paragraphen des Absatzes 35 der Zivilprozessordnung der Vereinigten Staaten, Paragraph 122 offenbart ist, erkenne ich gemäss Absatz 37, Bundesgesetzbuch, Paragraph 1.56(a) meine Pflicht zur Offenbarung von Informationen an, die zwischen dem Anmeldedatum der früheren Anmeldung und dem nationalen oder PCT internationalen Anmeldedatum dieser Anmeldung bekannt geworden sind.

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §122, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No.)
(Anmeldeseriennummer)

(Filing Date)
(Anmeldedatum)

(Status)
(patentiert, anhängig,
aufgegeben)

(Status)
(patented, pending,
abandoned)

(Application Serial No.)
(Anmeldeseriennummer)

(Filing Date)
(Anmeldedatum)

(Status)
(patentiert, anhängig,
aufgeben)

(Status)
(patented, pending,
abandoned)

Ich erkläre hiermit, dass alle von mir in der vorliegenden Erklärung gemachten Angaben nach meinem besten Wissen und Gewissen der vollen Wahrheit entsprechen, und dass ich diese eidesstattliche Erklärung in Kenntnis dessen abgebe, dass wissentlich und vorsätzlich falsche Angaben gemäss Paragraph 1001, Absatz 18 der Zivilprozessordnung der Vereinigten Staaten von Amerika mit Geldstrafe belegt und/oder Gefängnis bestraft werden koennen, und dass derartig wissentlich und vorsätzlich falsche Angaben die Gültigkeit der vorliegenden Patentanmeldung oder eines darauf erteilten Patentes gefährden können.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

German Language Declaration

VERTRETUNGSVOLLMACHT: Als benannter Erfinder beauftrage ich hiermit den nachstehend benannten Patentanwalt (oder die nachstehend benannten Patentanwälte) und/oder Patent-Agenten mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Geschäfte vor dem Patent- und Warenzeichenamt: (Name und Registrationsnummer anführen)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

And I hereby appoint

Messrs. John D. Simpson (Registration No. 19,842) Lewis T. Steadman (17,074), William C. Stueber (16,453), P. Phillips Connor (19,259), Dennis A. Gross (24,410), Marvin Moody (16,549), Steven H. Noll (28,982), Brett A. Valiquet (27,841), Thomas I. Ross (29,275), Kevin W. Guynn (29,927), Edward A. Lehmann (22,312), James D. Hobart (24,149), Robert M. Barrett (30,142), James Van Santen (16,584), J. Arthur Gross (13,615), Richard J. Schwarz (13,472) and Melvin A. Robinson (31,870), David R. Metzger (32,919), John R. Garrett (27,888) all members of the firm of Hill, Steadman & Simpson, A Professional Corporation.

Telefongespräche bitte richten an:
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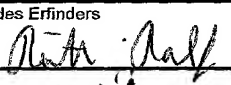
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Unterschrift des Erfinders	Datum	Second Inventor's signature	Date
Wohnsitz		Residence	
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(Bitte entsprechende Informationen und Unterschriften im Falle von dritten und weiteren Miterfindern angeben).

(Supply similar information and signature for third and subsequent joint inventors).